

**SPECIFICATION:**

P. 1 of the application, in the title, after "Circular" insert -- Cavity --.

5 P. 2, line 2, delete "disk and spherical" .

P. 2, line 16, change "resonator" to -- cavity structure --.

P. 2, line 19, change "resonators" to -- cavities --.

P. 2, line 25, change "resonators" to -- lasers --.

P. 3, line 2, change "propagation" to -- coupling --.

10 P. 3, line 8, change "such" to -- similar --.

P. 3, line 9, after "for gas and" insert -- larger--.

P. 3, line 9, after "solid state cavities." change "These" to -- Furthermore, these --.

P. 3, line 12, after "high reflection." insert the following paragraph:

15 -- The use of interference structures to enable high spectral resolving power in reflecting coatings has been described by Emmett (US Pat. No. 4,925,259), wherein a very large number of alternating dielectric layers possessing a very small difference in refractive indices is used for application in high power flashlamps. The described coatings are utilized primarily for providing a high damage threshold to the high irradiance experienced in the flashlamp enclosure, as well as for obtaining a well-resolved pump wavelength for use in the  
20 described flashlamp. -- .

P. 3, line 22, change "resonator" to -- laser --.

P. 4, line 8, after "disk and spherical" change "resonators" to -- lasers --.

P. 4, line 8, after "standard" change "resonators" to -- linear lasers--.

5 P. 4, line 14, change "optical resonator" to -- laser apparatus --.

P. 4, line 15, after "The" change "resonator" to -- laser --.

P. 4, line 15, after "comprises a" change "resonator" to -- cavity --.

P. 4, line 17, change "media" to -- medium --.

P. 4, line 20, delete "propagation".

10 P. 4, line 20, change "resonator" to -- laser --.

P. 4, line 23, change "developed that" to -- constructed that can --.

P. 4, line 23, change ". These narrow bandwidths provide" to --, corresponding to --.

P. 5, line 1, after "finesse" insert -- (finesse designating interference-based resolving power) --.

15 P. 5, line 3, change "resonator" to -- cavity --.

P. 5, line 4, change "resonator" to -- cavity --.

P. 5, line 5, after "selection of" insert -- preferred --.

P. 5, line 5, after "lower order modes" insert -- (lower order modes being represented in the present disclosure as those corresponding to near normal incidence radiation) --.

5 P. 6, line 17, delete "for the p polarization".

P. 6, line 18, change "decline" to -- generally decrease --.

P. 6, line 22, change "resonator" to -- cavity structure --.

P. 6, line 22, change "has been developed" to -- is disclosed herein --.

P. 7, line 1, after "This is" insert -- normally --.

10 P. 7, line 2, change "resonator" to -- cavity --.

P. 7, line 3, after "through", insert -- novel --.

P. 7, line 4, delete "developed in the present invention".

P. 7, line 5, change "resonator" to -- cavity --.

P. 7, line 7, change "resonator" to -- cavity --.

15 P. 7, line 12, change "media" to -- medium --.

P. 7, line 18, change "resonator" to -- cavity structure --.

P. 7, line 20, change "medium" to -- various process media --.

P. 7, line 20, change "resonator developed" to -- cavity structure disclosed --.

P. 7, line 21, change "a photo-absorbing medium" to -- photo-absorbing media --.

P. 7, line 22, change "medium" to -- media --.

5 P. 7, line 23, change "a photo-absorbing medium" to -- photo-absorbing media --.

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P. 8, line 8, change "resonator" to -- cavity --.

P. 8, line 9, delete "unusually".

P. 8, line 11, change "resonator" to -- cavity structure --.

P. 8, line 14, change "resonator" to -- cavity structure --.

10 P. 8, line 18, change "resonators" to -- cavity structures --.

P. 8, line 20, change "resonator" to -- cavity structure --.

P. 9, line 4, change "resonator" to -- cavity structure --.

P. 9, line 19, change "resonator" to -- cavity laser --.

P. 9, line 21, change "resonator" to -- cavity laser --.

15 P. 10, line 22, change "resonator" to -- gas cavity laser--.

P. 11, line 16, change "coatings," to -- coatings or --.

P. 11, line 18, change "resonator" to -- cavity --.

P. 11, line 21, change "is a reflectance curve" to -- are reflectance curves, in wavelength  $\lambda$  vs. % reflectance, --.

5 P. 11, line 22, after "incident", insert -- approximately --.

P. 11, line 22, after "reflectance", insert -- peak --.

P. 11, line 23, change "demonstrates" to -- is an example of --.

P. 12, line 1, change "achievable" to -- achieved --.

P. 12, line 1, change "curve" to -- peaks --.

10 P. 12, line 2, change "derived" to -- obtained --.

P. 12, line 2, change "an" to -- a --.

P. 12, line 3, change "split" to -- difference --.

P. 12, line 5, change "curve" to -- line --.

P. 12, line 5, change "curve" to -- peak --.

15 P. 12, line 7, change "in the reflectance peak" to -- between the two reflectance peaks of FIG. 2 --.

P. 12, line 7, change " $\Delta\lambda=5\text{ nm}$ " to --  $\lambda_0-\lambda_1=\Delta\lambda=5\text{ nm}$  --.

P. 12, line 12, change "resonator" to -- laser cavity --.

P. 13, line 1, change "media" to -- medium --.

P. 13, line 2, change "volume" to -- interior --.

5 P. 13, line 3, change "media" to -- medium --.

P. 13, line 7, change "extreme" to -- high --.

P. 13, line 10, change "volume" to -- interior --.

P. 13, line 12, change "volume" to -- interior --.

10 P. 13, line 17, change "precise angle of incidence desired", to -- the preferred angle-of-incidence --.

P. 13, line 18, change "media" to -- medium --.

P. 13, line 21, change "optical resonator" to -- laser cavity structure --.

P. 14, line 1, delete ",not through partially reflective mirrors, but".

P. 14, line 3, change "media" to -- medium --.

15 P. 14, line 7, change "volume" to -- central coupling structure --.

P. 14, line 11, change "resonator" to -- cavity --.

P. 14, line 12, change "media" to -- medium --.

P. 14, line 16, after "volume" insert -- (17) --.

P. 14, line 23, change "resonator" to -- laser cavity structure --.

5 P. 15, line 2, change "resonator" to -- cavity --.

P. 15, line 13, after "provide an" insert -- effective --.

P. 15, line 16, delete last sentence in paragraph "As such, the divergence....prior art."

P. 15, line 22, change "While the" to -- The --.

P. 15, line 23, after "in the art," insert -- such as by a discharge. Also, --.

10 P. 16, line 2, change "developed for" to -- of --.

P. 16, line 5, change "resonator" to -- cavity --.

P. 16, line 7, change "resonator" to -- cavity --.

P. 16, line 16, change "media" to -- medium --.

P. 16, line 16, after "Heat sinking" insert -- ,in such a case , --.

15 P. 16, line 17, after "through the" change "resonator" to -- cavity --.

P. 16, line 17, after "layers of the" change "resonator" to -- cavity --.

P. 16, line 18, after "to prevent" insert -- any possible --.

P. 16, line 18, after "TIR", replace "the" with -- unwanted --.

P. 16, line 18, change "resonator" to -- laser cavity structure --.

5 P. 16, line 20, after " $n_A$ ," insert -- substantially--.

P. 17, line 2, change "media" to -- medium --.

P. 17, line 10, after "FWHM", insert -- of FIG. 2 --.

P. 17, line 19, change "resonator" to -- cavity laser --.

P. 17, line 20, change "resonator" to -- cavity structure --.

10 P. 17, line 21, after "operation of a", change "resonator" to -- cavity structure --.

P. 17, line 21, after "so that the", change "resonator" to -- cavity --.

P. 18, line 1, change "resonator volume" to -- cavity interior --.

P. 18, line 3, after "sphere," insert -- which is --.

P. 18, lines 10-18, after "**FIG. 3.**" delete last four sentences of paragraph.

15 P. 18, line 20, change "optical resonator" to -- laser cavity --.



P. 24, line 8, change "resonator structure" to -- laser apparatus --.

P. 24, line 11, change "unusually high-finesse" to -- many layer pairs of very small refractive index difference, the MLD deposited on to a surface of revolution, thereby forming an optical cavity --.

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P. 24, line 11, change "filters" to -- dielectric reflectors --.

P. 24, line 11, after "selection of" insert -- preferred --.

P. 24, line 12, change "an extremely" to -- a --.

P. 24, line 13, change "the modes selected" to -- preferred modes --.

10 P. 24, line 15, delete sentence "The invention is also well suited....".

#### **DRAWINGS:**

15 Applicant did not receive any objections to the drawings, or a draftperson's review, in the Action. No amendments to the drawings are submitted in this response.